

ABSTRACT

The loading and unloading stand of a palletless rack-type storage system has a plurality of fork bars mounted on longitudinal beams arranged across the fork bars with at least one free end of the fork bars with the roller's rotation center being placed along the fork bars, the upper portion of the rollers having an excessive protrusion above the top of the fork bars so as to allow bottom of the cargo to be rolling-contacted, and a drive unit to keep the rollers rolling in the loading or unloading direction of cargo, wherein the loading and unloading stand is provided at the edge of an entrance of a predetermined floor of the racks and being the same level as a conveyor to load the cargo into the racks from a loading station, or unload cargo to an unloading station from the racks. The cargo can be smoothly and conveniently transferred between the stacker crane and the conveyor without using separate transfer apparatus.